

ABSTRACT

A high-frequency module contains a GaAs switch (GaAsSW) as an FET switch for selectively connecting one of RF input-output terminals (RF1 to RF4) to an antenna input-output terminal (ANT) to be connected to an antenna. A GSM transmission signal input terminal (Tx12) is connected to the RF input-output terminal (RF1) of the GaAsSW (GaAsSW) through a low-pass filter (LPF1), and a DCS/PCS transmission signal input terminal (Tx34) is connected to the RF input-output terminal (RF2) through a low-pass filter (LPF2). A GSM 850 reception signal output terminal (Rx1) and a PCS reception signal output terminal (Rx4) are connected to the RF input-output terminal (RF3) through a diplexer (DiPX10), and a GSM 900 reception signal output terminal (Rx2) and a PCS reception signal output terminal (rx3) are connected to the RF input-output terminal (RF4) through a diplexer (DiPX20).